## COMMERCIAL



## FLEXIBLE VENTING OPTIONS

- Concentric or Schedule 40 PVC/CPVC
- Direct Vent (Concentric and Twin Pipe)
- Non-Direct Vent (Room Air)
- Common Vent (Direct Vent and Room Air)

Vent lengths up to 150 ft with Eight Tankless Water Heater Units.

- Maximum Equivalent Vent Lengths:

Twin Pipe (PVC/CPVC and PP)

| Vent Sizes | $2 \mathrm{in} .(51 \mathrm{~mm})$ | $3 \mathrm{in} .(76 \mathrm{~mm})$ |
| :--- | :---: | :---: |
| Vent Lengths | $75 \mathrm{ft}(23 \mathrm{~m})$ | $150 \mathrm{ft}(46 \mathrm{~m})$ |

Concentric

| Vent Sizes | $2 \mathrm{in} . \mathrm{X} 4 \mathrm{in}$. | $3 \mathrm{in} . \mathrm{X} 5 \mathrm{in}$. |
| :--- | :---: | :---: |
| Vent Lengths | $75 \mathrm{ft}(23 \mathrm{~m})$ | $150 \mathrm{ft}(46 \mathrm{~m})$ |

## EASE OF INSTALLATION AND SERVICEABILITY

- Smart-Sense ${ }^{\text {TM }}$ : Adaptive gas valve technology - No gas conversion kit required.
- Versa-Vent ${ }^{\text {TM }}$ : Outdoor vent cap adapts to any SENSEI ${ }^{\text {TM }}$ CX Series model for outdoor installation.
- Smart Connect ${ }^{\text {m }: ~ A l l o w s ~ y o u ~ t o ~ c o n n e c t ~ y o u r ~ p h o n e ~ o r ~ t a b l e t ~ t o ~}$ SENSEI ${ }^{\text {TM }}$ CX Series Via Bluetooth ${ }^{\circledR}$ using Rinnai Central ${ }^{\text {TM }}$ app.
- Quick-Flush ${ }^{\text {™ }: ~ P r o v i d e s ~ a n ~ e f f i c i e n t ~ f l u s h i n g ~ p r o c e d u r e ~ t o ~ m a k e ~}$ periodic preventive maintenance a simple task to perform.


## SUPER-HIGH-EFFICIENCY (CONDENSING) <br> TANKLESS WATER HEATER

| Installation Type | Internal (Indoor) Commercial Applications |
| :---: | :---: |
|  | External (Outdoor) Commercial Applications with Outdoor Vent Cap |
| Model Numbers | CXP199i (REU-NBP3237FFC-US) |
|  | CXP160i (REU-NBP2530FFC-US) |
| Approved Gas Types | Natural and Propane |
| Efficiency | APP UEF: 0.98 (CXP199i) |
|  | ATRif CERTIFED. 0.97 (CXP160i) |
|  | Ratings not certified by AHRI <br> Thermal Efficiency: 97\% |
| High Altitude Approved | Up to 10,200 ft (3,109 m) |
| Water Flow Control | Water Flow Sensor, Electronic Water Control and Bypass Control |
| Controller | Standard: Integrated Controller Optional: MC-195T-US, MC-601-BK/W |
| Certifications | AHRI, ANSI Z21.10.3, CSA 4.3, and ENERGY STAR ${ }^{\oplus}$ |

## Warranty

- Heat Exchanger: 8 years or 12,000 operation hours, whichever occurs first
- All Other Parts and Components: 5 years
- Reasonable Labor: 1 year


## Safety Devices

Flame Failure - Flame Rod, Boiling Protection, Combustion Fan RPM Check, Over Current - Glass Fuse, Remaining Flame (OHS) and Automatic Frost Protection

## Included with Purchase

Tankless Water Heater, Wall Mounting Bracket, Vent Screens (x2), Vent Screen Screws (x2), and Self-Tapping Screws (x4)

## Additional Features

- Complies with South Coast Air Quality Management District $14 \mathrm{ng} / \mathrm{J}$ or 20 ppm
- Tankless Rack System ${ }^{\text {TM }}$ Compatible
- $1 / 2 \mathrm{in}$. ( 13 mm ) Gas Line Compatible

NOx Emission Levels

Additional Applications

- Commercial Tankless Rack Systems



## CERTIFIED TO ANSI Z21.10.3 - CSA 4.3

| Description | Part Number | Description | Part Number | Description | Part Number |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Outdoor Vent Cap* | RXOVC | Pipe Cover* | PCD11-IB | Controllers | MC-601-BK/W, MC-195T-US |
| Isolation Valves | MIVK-T-LW | Recess Box for SENSEI ${ }^{\text {TM }}$ CX Series* | RGBCTWHRX | Condensate Neutralizer | 103000067, 804000074 |
| Dedicated Return with Isolation Valves and PRV* | 107000639 | Bottom Plate for Pipe Cover* | 109001364 | Scale Cutter | 103000038 |
| Retrofit Door for CX in RGB-CTWH-4* | 104000335 | Wireless Module* | RWM200 | Scale Cutter Refill | 103000039 |
| Retrofit Door for CX in RGB-CTWH-3, 2, 1* | 104000336 | Recirculation Push Button* | RPB200 | Cascade Cable | REU-CSA-C1, REU-CSA-C2 |
| OPU Switch | REU-OPU3 | Gas Conversion Kit (Labels Only)* | 104000330 | Leak Detection Kit | RXLeakKit |

*New—for SENSEI ${ }^{\text {TM }}$ RX/CX Series Water Heaters

SENSEI ${ }^{\text {TM }}$ CXP TECHNICAL SPECIFICATIONS


* 0 in. from vent components.
** Clearance for servicing is 24 in . ( 610 mm ) in front of water heater.
*** Add 0.25 in . ( 6.35 mm ) for recess box.
${ }^{1}$ Activation flow rate may vary slightly depending on the temperature setting and the inlet water
2 temperature.
${ }^{2}$ The maximum gas supply pressure must not exceed the value specified by the manufacturer.
Rinnai product are continually being updated and improved; therefore, specifications are subject to change without prior notice.


## SENSEI ${ }^{\text {TM }}$ CXP WATER FLOW CURVE

Flow curves apply only to incoming water temperatures of $70^{\circ} \mathrm{F}\left(21^{\circ} \mathrm{C}\right)$ or less. For incoming water temperatures greater than $70^{\circ} \mathrm{F}\left(21^{\circ} \mathrm{C}\right)$, please contact Rinnai.


SENSEI ${ }^{\text {TM }}$ CXP DIMENSIONS
in. (mm)
FRONT


SIDE


Hot Outlet

- Cold Inlet

Condensate
Drain



## Recirculation Pump Control

## Internal Multi-Speed DC Pump



- Manual schedule selection is available with Accessory controllers (MC-195T or Wi-Fi module)

Integrated pump allows for recirculation through a dedicated return line or crossover with thermal bypass valve.

- 400 equivalent feet for $3 / 4 \mathrm{in}$. pipe diameter
- 100 equivalent feet for $1 / 2$ in. pipe diameter

Take equivalent elbow lengths into consideration when calculating pipe length.
For dedicated return lines: Total length includes both hot water supply and dedicated return lines.

Cross-over mode: Total length includes both hot water supply and cold water piping length from the tankless water heater to the thermal bypass valve. Cross-over mode requires the use of a thermal bypass valve.

